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WETLANDS/ISLANDS/RIPARIAN HABITAT AND WILDLIFE

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[36 Lilymead Ave., Knowle, Bristol BS4 2BX, England] *Ardea cinerea, Ephippiorhynchus senegalensis, Ciconia ciconia, Polihierax semitorquatus,* and *Aplopelia larvata.*

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[Edward Grey Inst. Field Ornithol., Dep. Zool., Univ. Oxford, S. Parks Rd., Oxford OX1 3PS, England]

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[Dep. Zool., Univ. Okla., Norman 73019] *Aquila verreauxi, Pandion haliaetus, Sula nebouxii, Egretta alba,* and *Ardeola ibis.*

91-001263 Morris, P. I. GREEN SANDPIPER EVADING ATTACK BY PEREGRINE, AND PEREGRINE'S CHOICE OF FOOD. *Br. Birds* 83(12):552. 1990. WR 222
[Caughall Farm Cottage, Caughall Rd., Upton-by-Chester, Cheshire CH2 4BW, England] *Falco peregrinus, Tringa ochropus, Philomachus pugnax, Limosa lapponica, Haematopus ostralegus, Vanellus vanellus, Calidris alpina, T. totanus,* and *Numenius arquata* in England.

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91-001266 Van Rhijn, Johan G. UNIDIRECTIONALITY IN THE PHYLOGENY OF SOCIAL ORGANIZATION, WITH SPECIAL REFERENCE TO BIRDS. *Behaviour* 115(3-4):153-174. 1990. In English with German summ. WR 222

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[771 Fletcher St., Tonawanda, NY 14150] *Agelaius phoeniceus* and *Actitis macularia* in New York.

91-001268 Wesolowski, Tomasz. NEST-SITES OF HOLE-NESTERS IN A PRIMAEVAL TEMPERATE FOREST (BIALOWIEZA NATIONAL PARK, POLAND). *Acta Ornithol. (Warsaw)* 25(3):321-351. 1989. In English with Polish and Russian summ. WR 222

[Dep. Avian Ecol., Wroclaw Univ., Sienkiewicza 21, 50-335 Wroclaw, Poland] *Sturnus vulgaris, Sitta europaea, Ficedula hypoleuca, F. albicollis, Parus major, P. caeruleus, P. palustris, Dendrocopos major, D. medius,* and *D. minor.*

91-001269 Whitacre, David and Devora Ukrain. BIRDS AT ANT SWARMS IN TIKAL, GUATEMALA. *Sociobiology* 17(3):467-468. 1990. WR 222

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BIRDS—POPULATION DYNAMICS

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[Natl. Ecol. Res. Cent., U.S. Fish & Wildl. Serv., Fort Collins, CO 80525-3400] *Phasianus colchicus, Colinus virginianus, Sturnella magna,* and *S. neglecta* in the United States.

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[Dep. Biol., VPI&SU, Blacksburg, VA 24061]

BIRDS—MIGRATION AND BANDING REPORTS

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[Dep. Biol., Loma Linda Univ., Loma Linda, CA 92350] *Falco peregrinus, Pluvialis squatarola, Calidris canutus, C. alba, Sterna paradisaea,* and *Progne subis.*

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BIRDS—MORTALITY AND SURVIVAL

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91-001281 Temple, Stanley A. HOW LONG DO BIRDS LIVE? *Passenger Pigeon* 52(3):255-258. 1990. WR 222
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BIRDS—PESTICIDES AND POLLUTION

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[Dep. Fisica, Fac. Vet., Univ. Extremadura, Carretera Trijillo S/N, 10071 Caceres, Spain]

91-001283 Baril, Alain; John E. Elliott; James D. Somers and Gary Erickson. RESIDUE LEVELS OF ENVIRONMENTAL CONTAMINANTS IN PREY SPECIES OF THE PEREGRINE FALCON, *FALCO PEREGRINUS*, IN CANADA. *Can. Field-Nat.* 104(2):273-284. 1990. In English with French summ. WR 222
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91-001288 Borlakoglu, J. T.; J. P. G. Wilkins; C. H. Walker and R. R. Dils. POLYCHLORINATED BIPHENYLS (PCBs) IN FISH-EATING SEA BIRDS - III. MOLECULAR FEATURES AND METABOLIC INTERPRETATIONS OF PCB ISOMERS AND CONGENERS IN ADIPOSE TISSUES. *Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 97(1):173-177. 1990. WR 222
[Merrel Dow Res. Inst., Dep. Drug Metabol. & Pharm., 16 rue d'Ankara, B.P. 447 R/9 F-67009 Strasbourg, France] *Fratercula arctica, Uria aalge, Phalacrocorax aristotelis, P. carbo,* and *Alca torda* in Scotland and Ireland.

91-001289 Borlakoglu, J. T.; J. P. G. Wilkins; C. H. Walker and R. R. Dils. POLYCHLORINATED BIPHENYLS (PCBs) IN FISH-EATING SEA BIRDS - I. MOLECULAR FEATURES OF PCB ISOMERS AND CONGENERS IN ADIPOSE TISSUE OF MALE AND FEMALE RAZORBILLS (*ALCA TORDA*) OF BRITISH AND IRISH COASTAL WATERS. *Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 97(1):151-160. 1990. WR 222
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[Dep. Biochem. & Physiol., School Anim. & Microbiol. Sci., Univ. Reading, Whiteknights, P.O. Box 228, Reading RG6 2AJ, England] *Puffinus puffinus* in Scotland.

BIRDS—PESTICIDES AND POLLUTION (Continued)

91-001291 Busby, Daniel G.; Louise M. White and Peter A. Pearce. BRAIN ACETYLCHOLINESTERASE ACTIVITY IN FOREST SONGBIRDS EXPOSED TO A NEW METHOD OF UULV FENITROTHION SPRAYING. *Arch. Environ. Contam. Toxicol.* 20(1):25–31. 1991. WR 222

[Canadian Wildl. Serv., P.O. Box 1590, Sackville, NB, Canada E0A 3C0] *Vermivora peregrina, Dendroica castanea, D. magnolia,* and *Zonotrichia albicollis* in Canada.

91-001292 Court, G. S.; C. C. Gates; D. A. Boag; J. D. MacNeil; D. M. Bradley; A. C. Fesser; J. R. Patterson; G. B. Stenhouse and L. W. Oliphant. A TOXICOLOGICAL ASSESSMENT OF PEREGRINE FALCONS, *FALCO PEREGRINUS TUNDRIUS,* BREEDING IN THE KEEWATIN DISTRICT OF THE NORTHWEST TERRITORIES, CANADA. *Can. Field-Nat.* 104(2):255–272. 1990. In English with French summ. WR 222

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91-001293 Crick, Humphrey. POISONED PREY IN THE HEART OF AFRICA. *New Sci.* 128(1744):39–42. 1990. WR 222

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[Dep. Ecol. & Evol. Biol., Univ. Calif., Irvine 92717] *Catharacta maccormicki.*

91-001296 Fairbrother, A. and J. Fowles. SUBCHRONIC EFFECTS OF SODIUM SELENITE AND SELENOMETHIONINE ON SEVERAL IMMUNE-FUNCTIONS IN MALLARDS. *Arch. Environ. Contam. Toxicol.* 19(6):836–844. 1990. WR 222

[U.S. Environ. Prot. Agency, Environ. Res. Lab., 200 S.W. 35th St., Corvallis, OR 97333] *Anas platyrhynchos.*

91-001297 Ford, W. M. and E. P. Hill. ORGANOCHLORINE CONTAMINANTS IN EGGS AND TISSUE OF WOOD DUCKS FROM MISSISSIPPI. *Bull. Environ. Contam. Toxicol.* 45(6):870–875. 1990. WR 222

[Hill: U.S. Fish & Wildl. Serv., Coop. Fish & Wildl. Res. Unit, P.O. Drawer BX, Mississippi State, MS 39762] *Aix sponsa.*

91-001298 Fyfe, Richard W.; Ursula Banasch; Virgilio Benavides; Nancy Hilgert de Benavides; Anthony Luscombe and Julio Sanchez. ORGANOCHLORINE RESIDUES IN POTENTIAL PREY OF PEREGRINE FALCONS, *FALCO PEREGRINUS,* IN LATIN AMERICA. *Can. Field-Nat.* 104(2):285–292. 1990. In English with French summ. WR 222

[Box 3263, Fort Saskatchewan, AB, Canada T8L 2T2]

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[Dep. Biol. Sci., Simon Fraser Univ., Burnaby, BC, Canada] *Larus argentatus.*

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[Inst. Zool., Comenius Univ., Mlynska dolina B1, 842 15 Bratislava, Czechoslovakia] *Columba livia* in Czechoslovakia.

BIRDS—PESTICIDES AND POLLUTION (Continued)

91-001304 Kennedy, Sean W. and Glen A. Fox. HIGHLY CARBOXYLATED PORPHYRINS AS A BIOMARKER OF POLYHALOGENATED AROMATIC HYDROCARBON EXPOSURE IN WILDLIFE: CONFIRMATION OF THEIR PRESENCE IN GREAT LAKES HERRING GULL CHICKS IN THE EARLY 1970s AND IMPORTANT METHODOLOGICAL DETAILS. *Chemosphere* 21(3):407-415. 1990. WR 222

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91-001305 Khan, R. A. and P. Ryan. LONG TERM EFFECTS OF CRUDE OIL ON COMMON MURRES *(URIA AALGE)* FOLLOWING REHABILITATION. *Bull. Environ. Contam. Toxicol.* 46(2):216-222. 1991. WR 222

[Dep. Biol. & Ocean Sci. Cent., Memorial Univ. Newfoundland, St. John's, NF, Canada A1C 5S7]

91-001306 King, Kirke A.; Thomas W. Custer and James S. Quinn. EFFECTS OF MERCURY, SELENIUM, AND ORGANOCHLORINE CONTAMINANTS ON REPRODUCTION OF FORSTER'S TERNS AND BLACK SKIMMERS NESTING IN A CONTAMINATED TEXAS BAY. *Arch. Environ. Contam. Toxicol.* 20(1):32-40. 1991. WR 222

[U.S. Fish & Wildl. Serv., Gulf Coast Res. Stn., P.O. Box 2506, Victoria, TX 77902] *Rynchops niger* and *Sterna forsteri.*

91-001307 Kozie, Karin D. and Raymond K. Anderson. PRODUCTIVITY, DIET, AND ENVIRONMENTAL CONTAMINANTS IN BALD EAGLES NESTING NEAR THE WISCONSIN SHORELINE OF LAKE SUPERIOR. *Arch. Environ. Contam. Toxicol.* 20(1):41-48. 1991. WR 222

[Voyaguers Natl. Park, Box 50, International Falls, MN 56649] *Haliaeetus leucocephalus.*

91-001308 Martin, Lee R. and Sam Hagar. BIRD CONTROL ON CONTAINMENT POND SITES. *Proc. Vertebr. Pest Conf.* No. 14. p. 307-310. 1990. WR 222

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91-001309 Nelson, R. Wayne. STATUS OF THE PEREGRINE FALCON, *FALCO PEREGRINUS PEALEI,* ON LANGARA ISLAND, QUEEN CHARLOTTE ISLANDS, BRITISH COLUMBIA, 1968-1989. *Can. Field-Nat.* 104(2):193-199. 1990. In English with French summ. WR 222

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91-001310 Newton, I.; I. Wyllie and P. Freestone. RODENTICIDES IN BRITISH BARN OWLS. *Environ. Pollut.* 68(1/2):101-117. 1990. WR 222

[Inst. Terrestrial Ecol., Monks Wood Exp. Stn., Abbots Ripton, Huntington, Cambs PE17 2LS, England] *Tyto alba* in Great Britain.

91-001311 Nims, Robin Ann. ACCUMULATION OF MERCURY, CADMIUM, AND SELENIUM IN EGGS AND YOUNG OF GREAT BLUE HERONS. *M.S. thesis, Ohio State Univ.* 60p. 1987. WR 222

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91-001312 Noble, David G. and John E. Elliott. LEVELS OF CONTAMINANTS IN CANADIAN RAPTORS, 1966 TO 1988; EFFECTS AND TEMPORAL TRENDS. *Can. Field-Nat.* 104(2):222-243. 1990. In English with French summ. WR 222

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91-001313 Ormerod, S. J. and S. J. Tyler. ENVIRONMENTAL POLLUTANTS IN THE EGGS OF WELSH DIPPERS *CINCLUS CINCLUS*: A POTENTIAL MONITOR OF ORGANOCHLORINE AND MERCURY CONTAMINATION IN UPLAND RIVERS. *Bird Study* 37(3):171-176. 1990. WR 222

[UWCC, c/o Natl. Rivers Authority, 19 Penyfai Ln., Furnace, Llanelli, Wales] *Motacilla cinerea* and *Cinclus cinclus* in Wales.

91-001314 Pattee, Oliver H.; Peter H. Bloom; J. Michael Scott and Milton R. Smith. LEAD HAZARDS WITHIN THE RANGE OF THE CALIFORNIA CONDOR. *Condor* 92(4):931-937. 1990. WR 222

[Patuxent Wildl. Res. Cent., U.S. Fish & Wildl. Serv., Laurel, MD 20708] *Aquila chrysaetos* and *Gymnogyps californianus* in California.

91-001315 Peakall, David B.; David G. Noble; John E. Elliott; James D. Somers and Gary Erickson. ENVIRONMENTAL CONTAMINANTS IN CANADIAN PEREGRINE FALCONS, *FALCO PEREGRINUS*: A TOXICOLOGICAL ASSESSMENT. *Can. Field-Nat.* 104(2):244-254. 1990. In English with French summ. WR 222

[Natl. Wildl. Res. Cent., Canadian Wildl. Serv., Ottawa, ON, Canada K1A 0H3]

91-001316 Ravussin, P.-A.; L.-F. de Alencastro; B. Humbert; D. Rossel and J. Tarradellas. [EGG CONTAMINATION BY HEAVY METALS AND ORGANOCHLORINES IN THE TENGMALM'S OWL IN JURA VAUDOIS, SWITZERLAND.] *Nos Oiseaux* 40(5):257-266. 1990. In French with English and German summ. WR 222

[CH-1446 Baulmes, Switzerland] *Aegolius funereus.*

BIRDS—PESTICIDES AND POLLUTION (Continued)

91-001317 Scheuhammer, A. M. and L. K. Wilson. EFFECTS OF LEAD AND PESTICIDES ON δ-AMINOLEVULINIC ACID DEHYDRATASE OF RING DOVES (*STREPTOPELIA RISORIA*). *Environ. Toxicol. Chem.* 9(11):1379-1386. 1990. WR 222

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91-001318 Schmitz, Richard A.; A. Alonso Aguirre; Robert S. Cook and Guy A. Baldassarre. LEAD POISONING OF CARIBBEAN FLAMINGOS IN YUCATAN, MEXICO. *Wildl. Soc. Bull.* 18(4):399-404. 1990. WR 222

[124 Sci. II, Dep. Anim. Ecol., Iowa State Univ., Ames 50011] *Phoenicopterus ruber ruber.*

91-001319 Somers, J. D.; A. A. Khan; Y. Kumar and M. W. Barrett. EFFECTS OF SIMULATED FIELD SPRAYING OF CARBOFURAN, CARBARYL AND DIMETHOATE ON PHEASANT AND PARTRIDGE CHICKS. *Bull. Environ. Contam. Toxicol.* 46(1):113-119. 1990. WR 222

[Anim. Sci. & Chem. Div., Alberta Environ. Cent., Postal Bag 4000, Vegreville, AB, Canada T0B 4L0] *Phasianus colchicus* and *Alectoris graeca* in Canada.

91-001320 Vermeer, Kees and Juan Carlos Castilla. HIGH CADMIUM RESIDUES OBSERVED DURING A PILOT STUDY IN SHOREBIRDS AND THEIR PREY DOWNSTREAM FROM THE EL SALVADOR COPPER MINE, CHILE. *Bull. Environ. Contam. Toxicol.* 46(2):242-248. 1991. WR 222

[Canadian Wildl. Serv., c/o Inst. Ocean Sci., P.O. Box 6000, Sidney, BC, Canada V8L 4B2] *Larus dominicanus, L. modestus, L. pipixcan, Numenius hudsonicus, Calidris alba,* and *Haematopus ostralegus.*

91-001321 Witkowski, Jozef. BREEDING BIOLOGY AND ECOLOGY OF THE MARSH HARRIER *CIRCUS AERUGINOSUS* IN THE BARYCZ VALLEY, POLAND. *Acta Ornithol. (Warsaw)* 25(3):223-320. 1989. In English with Polish and Russian summ. WR 222

[Dep. Avian Ecol., Wroclaw Univ, Sienkiewicza 21, 50-335 Wroclaw, Poland]

BIRDS—PARASITES AND DISEASES

91-001322 Converse, Kathryn A. and F. Joshua Dein. TUBERCULOSIS IN WILD BIRDS: IMPLICATIONS FOR CAPTIVE BIRDS. *Am. Assoc. Zoo Vet. Annu. Proc.* p. 140. 1990. Abstract only. WR 222

[U.S. Fish & Wildl. Serv., Natl. Wildl. Health Res. Cent., 6006 Schroeder Rd., Madison, WI 53711]

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[Sea World, 10500 Sea World Dr., San Antonio, TX 78251] *Ara ararauna, Pygoscelis papua, Aptenodytes patagonica,* and *P. antarctica.*

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[Dep. Nat. Resour., 3550 Mormon Coulee Rd., La Crosse, WI 54601] *Phasianus colchicus.*

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91-001376 Purdy, James H. TURKEYS AT CLAIR, SASKATCHEWAN. *Blue Jay* 48(1):35. 1990. WR 222
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91-001377 Schmutz, Joel A.; Clait E. Braun and William F. Andelt. BROOD HABITAT USE OF RIO GRANDE WILD TURKEYS. *Prairie Nat.* 22(3):177-184. 1990. WR 222
[Fish & Wildl. Res. Cent., U.S. Fish & Wildl. Serv., 1011 E. Tudor Rd., Anchorage, AK 99503] *Meleagris gallopavo* in Colorado.

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OTHER GALLINACEOUS BIRDS

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91-001381 Priddel, David and Robert Wheeler. SURVIVAL OF MALLEEFOWL *LEIPOA OCELLATA* CHICKS IN THE ABSENCE OF GROUND-DWELLING PREDATORS. *Emu* 90(2):81-87. 1990. WR 222
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91-001384 Genard, Michel. [THE PRENUPTUAL MIGRATION (1984) OF TURTLE DOVES, *STREPTOPELIA TURTUR*, IN GIRONDE, (FRANCE).] *Nos Oiseaux* 40(5):303-305. 1990. In French. WR 222
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[Pence: Dep. Pathol., Tex. Tech Univ. Health Sci. Cent., Lubbock 79430] *Zenaida macroura.*

91-001386 Perez-Rivera, Raul A. [STATUS OF THE PLAIN PIGEON IN THE GREATER ANTILLES.] *Sci.-Cienc. Biol. Cient. Sur* 17(1):21-25. 1990. In Spanish with English summ. WR 222
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91-001388 Swanson, David Anthony. BREEDING BIOLOGY OF THE WHITE-WINGED DOVE (*ZENAIDA ASIATICA*) IN SOUTH TEXAS. *M.S. thesis, Tex. A&I Univ.* 1989. WR 222

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[7 rue Jules-Verne, F-64000 Pau, France] *Larus cachinnans, Gallinula chloropus,* and *Anas platyrhynchos* in France.

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91-001508 Bolduc, Alison. A LATE SHORT-BILLED DOWITCHER. *Loon* 62(3):169. 1990. WR 222

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[C.O.R.V.O. (Cent. Ornitol. Veneto Orientale), c/o Mus. Storia Nat., I-31044 Montebelluna, Treviso, Italy]

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[115 Rink Ave., Regina, SN, Canada S4R 5W2] *Rissa tridactyla*.

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[Nongame Heritage Zool., Game & Parks Comm., 2200 N. 33rd St., Lincoln, NE 68503] *Charadrius montanus* in Nebraska.

91-001525 Clements, Richard. SANDHILL CRANE SUMMERS IN CHEMUNG COUNTY. *Kingbird* 40(4):233-234. 1990. WR 222
[989 Mountain View Dr., Pine City, NY 14871] *Grus canadensis* in New York.

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91-001529 de Roos, Gerlof Th. WADERS IN THEIR BREEDING HABITATS IN ALASKA. *Stilt* No. 17. p. 45-52. 1990. WR 222
[Agric. Univ., Nat. Conserv. Dep., c/o Dorpstr. 198, 8899 AP Vlieland, Netherlands] Data for 27 species.

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[4024 Arkansas Dr., Ames, IA 50010] *Larus minutus* in Iowa.

91-001535 Dinzl, Louis. AMERICAN AVOCETS IN PINE COUNTY. *Loon* 62(3):153-154. 1990. WR 222

[7828 N. Mississippi Ln., Brooklyn Park, MN 55444] *Recurvirostra americana* in Minnesota.

91-001536 Emslie, S. D.; R. P. Henderson and D. G. Ainley. ANNUAL VARIATION OF PRIMARY MOLT WITH AGE AND SEX IN CASSIN'S AUKLET. *Auk* 107(4):689-695. 1990. WR 222

[Point Reyes Bird Observ., 4990 Shoreline Hwy., Stinson Beach, CA 94970] *Ptychoramphus aleuticus* in California.

91-001537 Evans, Roger M. EFFECTS OF LOW INCUBATION TEMPERATURES DURING THE PIPPED EGG STAGE ON HATCHABILITY AND HATCHING TIMES IN DOMESTIC CHICKENS AND RING-BILLED GULLS. *Can. J. Zool.* 68(5):836-840. 1990. In English with French summ. WR 222

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91-001538 Farronato, Ivan and Giancarlo Fracasso. [NESTING OF CORNCRAKE, *CREX CREX*, IN THE PROVINCE OF VICENZA (NE ITALY).] *Riv. Ital. Ornitol.* 59(3-4):196-200. 1989. In Italian with English summ. WR 222

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91-001542 Fry, Graham. BIOMETRICS, MOULT AND MIGRATION OF TEREK SANDPIPERS *TRINGA TEREK* SPENDING THE NON-BREEDING SEASON IN NORTH WEST AUSTRALIA. *Stilt* No. 17. p. 24-28. 1990. WR 222

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[Canadian Wildl. Serv., Natl. Wildl. Res. Cent., 100 Gamelin Blvd., Hull, PQ, Canada K1A 0H3] *Synthliboramphus antiquus* in Canada.

91-001544 Gichuki, Nathan. SPOTTED THICKNEE *BURHINUS CAPENSIS* IN ARABUKO-SOKOKE FOREST. *EANHS (East Afr. Nat. Hist. Soc.) Bull.* 19(4):56. 1989. WR 222

[Dep. Zool., Univ. Nairobi, Box 30197, Nairobi, Kenya]

91-001545 Golley, Mark A. LEAST SANDPIPER FEEDING BY HOVERING. *Br. Birds* 83(11):502-503. 1990. WR 222

[1 Willow Tree Close, Okehampton, Devon EX20 1NL, England] *Calidris minuta* in England.

SHOREBIRDS, MARSHBIRDS, AND ALLIES (Continued)

91-001546 Gratto-Trevor, Cheri L.; Lewis W. Oring; Albert J. Fivizzani; Mohamed E. El Halawani and Fred Cooke. THE ROLE OF PROLACTIN IN PARENTAL CARE IN A MONOGAMOUS AND A POLYANDROUS SHOREBIRD. *Auk* 107(4):718-729. 1990. WR 222
[Prairie & North. Wildl. Cent., Canadian Wildl. Serv., 115 Perimeter Rd., Saskatoon, SN, Canada S7N 0X4] *Phalaropus lobatus* and *Calidris pusilla* in Canada.

91-001547 Gratto-Trevor, Cheri L.; Albert J. Fivizzani; Lewis W. Oring and Fred Cooke. SEASONAL CHANGES IN GONADAL STEROIDS OF A MONOGAMOUS VERSUS A POLYANDROUS SHOREBIRD. *Gen. Comp. Endocrinol.* 80(3):407-418. 1990. WR 222
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[RSPB, The Lodge, Sandy, Bedfordshire SG19 2DL, England] *Ardea cinerea*, *Falco tinnunculus*, and *Corvus corone* in England.

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[Via Cagliari 2, I-09095 Mogoro, Oristano, Italy]

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[Nat. Resour. Res. Inst., Univ. Minn., 5013 Miller Trunk Hwy., Duluth 55811] *Phalaropus tricolor* in Minnesota.

91-001552 Hebert, Percy N. DECLINE OF THE KENT ISLAND, NEW BRUNSWICK, HERRING GULL, *LARUS ARGENTATUS*, COLONY. *Can. Field-Nat.* 103(3):394-396. 1989. WR 222
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91-001553 Hemmings, Alan D. WINTER TERRITORY OCCUPATION AND BEHAVIOUR OF GREAT SKUAS AT THE CHATHAM ISLANDS, NEW ZEALAND. *Emu* 90(2):108-114. 1990. WR 222
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[74 Wellington St., Bacchus Marsh, Vic. 3340, Australia] *Haematopus fuliginosus* and *H. longirostris* in Australia.

91-001555 Hobson, Keith A. STABLE ISOTOPE ANALYSIS OF MARBLED MURRELETS: EVIDENCE FOR FRESHWATER FEEDING AND DETERMINATION OF TROPHIC LEVEL. *Condor* 92(4):897-903. 1990. WR 222
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[Notengaard 32, 3941 LW Doorn, Netherlands] *Larus delawarensis*, *L. atricilla*, *L. pipixcan*, and *L. philadelphia* in Great Britain, Ireland, and Europe.

91-001559 Houston, Peter and Mark Barter. MORPHOMETRICS OF RUDDY TURNSTONE *ARENARIA INTERPRES* IN AUSTRALIA. *Stilt* No. 17. p. 17-23. 1990. WR 222
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91-001562 Johnson, Richard. WADERS FEEDING ON FLOOD-DISPLACED PREY. *Stilt* No. 17. p. 74. 1990. WR 222

[25 Lindeman Ave., Cranbrook, Qld. 4814, Australia] *Charadrius melanops, C. cinctus, Himantopus himantopus,* and *Actitis hypoleucos* in Australia.

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91-001569 Knief, W. [ON THE DEVELOPMENT OF BREEDING POPULATIONS OF *ARDEA CINEREA* IN SCHLESWIG-HOLSTEIN IN 1984-1986.] *Corax* 12(1):47-53. 1986. In German. WR 222

[Staatliche Vogelshutzwarte, Schleswig-Holstein, Olshausenstr. 40-60, D-2300 Kiel, West Germany]

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[Dep. Dierkunde-Entomol., Univ. van die Oranje-Vrystaat, Postbus 339, Bloemfontein 9300, South Africa] *Eupodotis vigorsii, Neotis ludwigii, Eupodotis caerulescens, Neotis cafra, Choriotis kori,* and *Lophotis ruficrista* in South Africa.

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[2396 Highland Ave., Pittsburgh, PA 15101] *Stercorarius parasiticus* in Pennsylvania.

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Plegadis chihi in Massachusetts.

91-001583 Manser, Peter. THE CLAPPER RAIL: *(RALLUS LONGIROSTRIS). Gosse Bird Club Broadsheet* No. 55. p. 9-10. 1990. WR 222

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[Div. Biol. Sci., Univ. Mont., Missoula 59812] *Numenius tahitiensis* in Hawaii.

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91-001586 Michaud, Guy and J. Ferron. [PREY SELECTION BY FOUR SHOREBIRD SPECIES (CHARADRII) PASSING THROUGH THE SAINT-LAURENT ESTUARY ON THEIR SOUTHWARD MIGRATION.] *Can. J. Zool.* 68(6):1154-1162. 1990. In French with English summ. WR 222
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[P.G. Dep. Zool., Utkal Univ., Bhubaneswar-751004, India] *Ardeola grayii grayii, Egretta garzetta, Nycticorax nycticorax nycticorax,* and *A. ibis coromandus* in India.

91-001588 Monnat, Jean-Yves; Etienne Danchin and Ricardo Rodriguez Estrella. [ASSESSMENT OF ENVIRONMENTAL QUALITY WITHIN THE FRAMEWORK OF PROSPECTING AND RECRUITMENT: THE SQUATTERISM IN THE KITTIWAKE.] *C.R. Acad. Sci. Ser. III Sci. Vie* 311(11):391-396. 1990. In French with English summ. WR 222
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91-001590 Moreau, Gaston. [A NEW BREEDING SPECIES FOR FRANCE: THE COMMON CRANE.] *Alauda* 58(4):244. 1990. In French. WR 222
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91-001592 Morris, P. I. FREEZING POSTURES OF LITTLE STINTS AND BROAD-BILLED SANDPIPER. *Br. Birds* 83(10):426. 1990. WR 222
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91-001593 Mostini, Leonardo. [AGAIN, A GRAY HERON TAKES A BATH.] *Nos Oiseaux* 40(7):430. 1990. In French. WR 222
[via V. Veneto 8, I-28071 Borgolavezzaro (NO), Italy] *Ardea cinerea* in Italy.

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[North Slope Higher Educ. Cent., Pouch 7337, Barrow, AK 99723]

91-001599 Paul, Don S.; Joseph R. Jehl, Jr., and Pamela K. Yochem. CALIFORNIA GULL POPULATIONS NESTING AT GREAT SALT LAKE, UTAH. *Great Basin Nat.* 50(3):299-302. 1990. WR 222
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[Alpenzoo Innsbruck, Weiherburggasse 37, A-6020 Innsbruck, Austria]

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[3 Oakwood Rise, Exmouth, Devon EX8 4PU, England] *Charadrius asiaticus* in England.

91-001602 Quinlan, Susan E. and Jeffrey H. Hughes. LOCATION AND DESCRIPTION OF A MARBLED MURRELET TREE NEST SITE IN ALASKA. *Condor* 92(4):1068-1073. 1990. WR 222
[Box 82115, Fairbanks, AK 99708] *Brachyramphus marmoratus.*

91-001603 Rabosee, Didier. [NESTING OF THE COMMON OYSTERCATCHER (*HAEMATOPUS OSTRALEGUS*) IN THE BRUSSELS AREA.] *Aves* 27(1):68-69. 1990. In French. WR 222
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[All-Care Anim. Referral Cent., 18440 Amistad St., Fountain Valley, CA 92708] *Grus nigricollis.*

91-001605 Rayner, G. W. ARMENIAN GULL *LARUS ARMENICUS*. *Cyprus Ornithol. Soc. Annu. Rep.* No. 35. p. 87-88. 1988. WR 222

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[9400 53rd St., Lake Elmo, MN 55042] *Plegadis chihi* in Minnesota.

91-001607 Ritchie, Larry. A LONG-BILLED CURLEW AT THE FARM. *Loon* 62(3):167-168. 1990. WR 222
[25135 Dahle Ave., Faribault, MN 55021] *Numenius americanus* in Minnesota.

91-001608 Sagar, Paul and Donald Geddes. MOVEMENTS OF PIED OYSTERCATCHERS OUTSIDE THE BREEDING SEASON: A PRELIMINARY REPORT FROM A NEW ZEALAND STUDY. *Stilt* No. 17. p. 71-72. 1990. WR 222
[38A Yardley St., Christchurch 4, New Zealand] *Haematopus longirostris.*

91-001609 Sahin, Rustu. [HEAD-NODDING IN BALD IBISES (*GERONTICUS EREMITA*).] *J. Ornithol.* 131(4):445-451. 1990. In German with English summ. WR 222
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[N6104 Honeysuckle Ln., Green Lake, WI 54941]

SHOREBIRDS, MARSHBIRDS, AND ALLIES (Continued)

91-001611 Schulz, Martin. NOTES ON THE WADERS OF FLINDERS AND KING ISLANDS, BASS STRAIT. *Stilt* No. 17. p. 40-44. 1990. WR 222

[167 S. Beach Rd., Bittern, Vic. 3918, Australia] Data for 18 species in Australia.

91-001612 Schulz, Martin. THE BLACK-FRONTED PLOVER *CHARADRIUS MELANOPS* IN THE COASTAL ENVIRONMENT OF KING ISLAND, TASMANIA. *Stilt* No. 17. p. 75. 1990. WR 222

[167 S. Beach Rd., Bittern, Vic. 3918, Australia]

91-001613 Senner, S. E.; D. W. Norton and G. C. West. FEEDING ECOLOGY OF WESTERN SANDPIPERS, *CALIDRIS MAURI*, AND DUNLINS, *C. ALPINA*, DURING SPRING MIGRATION AT HARTNEY BAY, ALASKA. *Can. Field-Nat.* 103(3):372-379. 1989. WR 222

[P.O. Box 101193, Anchorage, AK 99510]

91-001614 Smith, Geoffrey C. FACTORS INFLUENCING EGG LAYING AND FEEDING IN BLACK-NAPED TERNS *STERNA SUMATRANA*. *Emu* 90(2):88-96. 1990. WR 222

[Surv. & Res. Branch, NPWS, P.O. Box 1967, Hurstville, N.S.W. 2220, Australia]

91-001615 Smith, Michael R. A SPOTTED REDSHANK IN WELLFLEET. *Bird Observer* 18(5):280-283. 1990. WR 222

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91-001616 Sprenger, Jack. BROWN COUNTY'S FIRST WHITE-FACED IBIS. *Loon* 62(3):159-160. 1990. WR 222

[615 N. Jefferson St, New Ulm, MN 56073] *Plegadis chihi* in Minnesota.

91-001617 Stemple, David. TEREK SANDPIPER AT PLUM ISLAND, JUNE 23, 1990. *Bird Observer* 18(5):286-290. 1990. WR 222

Xenus cinereus in Massachusetts.

91-001618 Strauss, Eric Gerson. REPRODUCTIVE SUCCESS, LIFE HISTORY PATTERNS, AND BEHAVIORAL VARIATION IN A POPULATION OF PIPING PLOVERS SUBJECTED TO HUMAN DISTURBANCES. *Ph.D. dissertation, Tufts Univ.* 153p. 1990. From Diss. Abstr. Int. B Sci. Eng. 51(6):2713. 1990. Order No. DA9028615. WR 222

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91-001619 Stroud, D. A.; T. M. Reed and N. J. Harding. DO MOORLAND BREEDING WADERS AVOID PLANTATION EDGES? *Bird Study* 37(3):177-186. 1990. WR 222

[Moorland Bird Study Chief Sci. Dir., Nat. Conserv. Counc., Northminster House, Peterborough PE1 1UA, England] *Pluvialis apricaria, Calidris alpina, Numenius arquata, Vanellus vanellus, Tringa totanus, T. nebularia, Actitis hypoleucos,* and *Gallingo gallingo* in England.

91-001620 Summers, R. W.; S. Smith; M. Nicoll and N. K. Atkinson. TIDAL AND SEXUAL DIFFERENCES IN THE DIET OF PURPLE SANDPIPERS *CALIDRIS MARITIMA* IN SCOTLAND. *Bird Study* 37(3):187-194. 1990. WR 222

[353 Arbroath Rd., Dundee, Tayside, Scotland]

91-001621 Sunby, Paul. GREAT BLACK-BACKED GULL *(LARUS MARINUS)*. *Passenger Pigeon* 52(3):288-289. 1990. WR 222

[7909 W. Lorraine Pl., Milwaukee, WI 53222]

91-001622 Sundell, Roger H. LESSER BLACK-BACKED GULL *(LARUS FUSCUS)*. *Passenger Pigeon* 52(3):288. 1990. WR 222

[N64 W5719 Columbia Rd., Cedarburg, WI 53012]

91-001623 Taylor, Daniel M. THE CASPIAN TERN IN IDAHO. *West. Birds* 21(2):78-80. 1990. WR 222

[2903 Greenvale Pl., Nampa, ID 83868] *Hydroprogne caspia.*

91-001624 Tokarskaya, O. N.; A. V. Zuev; A. G. Sorokin; V. G. Panchenko and A. P. Ryskov. DNA FINGERPRINTING OF CRANES: NEW APPROACH TO SPECIES TYPING. *Sov. Genet. (Engl. Transl. Genetika)* 26(4):369-374. 1990. WR 222

[V.A. Engel'gardt Inst. Mol. Biol., Acad. Sci., Moscow, USSR] *Anthropoides virgo, Grus grus, G. leucogeranus, G. japonensis, G. monacha,* and *G. canadensis pratensis.*

91-001625 Truffi, Giorgio and Natale Maranini. [A RECORD OF A SLENDER-BILLED GULL, *LARUS GENEI*, AT GENOA (NW ITALY).] *Riv. Ital. Ornitol.* 59(3-4):290-291. 1990. In Italian. WR 222

[Mus. Civ. Storia Nat., Villa Gardella, I-15060 Stazzano, Alessandria, Italy]

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[Nat. & Miljo, Sjomansgatan 35, SF-00150 Helsinki, Finland]

91-001627 Urrutia, Lena P. and Hugh Drummond. BROOD REDUCTION AND PARENTAL INFANTICIDE IN HEERMANN'S GULL. *Auk* 107(4):772-774. 1990. WR 222
[Drummond: Cent. Ecol., UNAM, A.P. 70-275, 04510 Mexico D.F., Mexico] *Larus heermanni* in Mexico.

91-001628 Wedgwood, Jim. WINDBREAKS FOR PLOVERS. *Blue Jay* 48(1):36. 1990. WR 222
[610 Leslie Ave., Saskatoon, SN, Canada S7H 2Z2] *Pluvialis squatarola* in Canada.

91-001629 Westemeier, Ronald L. UPLAND SANDPIPERS ON ILLINOIS PRAIRIE-CHICKEN SANCTUARIES. *Ill. Birds Birding* 6(3):63. 1990. WR 222
[Nat. Hist., 607 E. Peabody, Champaign, IL 61820] *Bartramia longicauda.*

91-001630 Whitfield, D. Philip. MALE CHOICE AND SPERM COMPETITION AS CONSTRAINTS ON POLYANDRY IN THE RED-NECKED PHALAROPE *PHALAROPUS LOBATUS. Behav. Ecol. Sociobiol.* 27(4):247-254. 1990. WR 222
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[Rue des Platanes 4, CH-1950 Sion, Switzerland]

91-001632 Willging, Robert C. ALASKA'S AMAZING ALCIDS. *WildBird* 5(2):40-45. 1991. WR 222
[U.S. Dep. Agric., Rhinelander, WI]

91-001633 Williams, A. J. COURTSHIP FEEDING AND COPULATION BY HARTLAUB'S GULLS *LARUS HARTLAUBII* AND PROBABLE HARTLAUB'S X GREYHEADED GULL *L. CIRROCEPHALUS* HYBRIDS. *Cormorant* 17(1/2):73-76. 1989. WR 222
[Cape Dir. Nat. & Environ. Conserv., P.O. Box 94, Walvis Bay 9190, South Africa]

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[Dep. Zool., Coll. Biol. Sci., Univ. Guelph, Guelph, ON, Canada N1G 2W1]

91-001635 Wong, P. L.; R. C. Anderson and Cheryl M. Bartlett. DEVELOPMENT OF *SKRJABINOCLAVA INORNATAE* (NEMATODA: ACUARIOIDEA) IN FIDDLER CRABS (*UCA* SPP.) (CRUSTACEA) AND WESTERN WILLETS (*CATOPTROPHORUS SIMIPALMATUS INORNATUS*) (AVES: SCOLOPACIDAE). *Can. J. Zool.* 67(12):2893-2901. 1989. In English with French summ. WR 222
[Dep. Zool., Coll. Biol. Sci., Univ. Guelph, Guelph, ON, Canada N1G 2W1] *Recurvirostra americana* and *Chlidonias nigra* in Louisiana and Canada.

91-001636 Wood, John C. BEHAVIOR AND MOVEMENTS OF ISOLATION-REARED SANDHILL CRANES. *M.S. thesis, Univ. Wis. (Stevens Point)* 34p. 1989. WR 222
Grus canadensis in Wisconsin.

91-001637 Young, Steve. UNUSUAL UPPERWING PATTERN OF LITTLE GULL. *Br. Birds* 83(11):503-504. 1990. WR 222
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SEABIRDS AND ALLIES

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BOOK REVIEW

Barash, David P. 1989. *Marmots: Social Behavior and Ecology*. Stanford University Press, Stanford, California 94305-2235. xvii + 360 pp. Available from the publisher at $49.50 (cloth).

This book is a sociobiological approach to *Marmota* ecology, in that it "emphasizes that living things are, in a sense, strategists, honed by many generations of natural selection to do things that tend to maximize their success in projecting copies of their genes into the future: that is, they tend to maximize their fitness." The book is a review of Barash's previous publications mixed with new, unpublished information and the work of other researchers.

The book begins with a section on basic biology—a review of the taxonomy and physical characteristics of marmots worldwide and their seasonal and daily activity patterns. Barash notes in his preface that "Marmots also have the good grace to hibernate during the academic year," in addition to being diurnal. The section on social behavior forms the bulk of the book and provides abundant detailed descriptions of behavior in marmots.

A third section deals with population biology—mortality, reproductive effort, and dispersal. The closing chapter, entitled "Basic Patterns and Correlation," concludes that "...marmots are reasonably good exemplars of predictable and interpretable trends, coherent and sometimes even gratifying manifestations of natural selection in action."

This serious, well-illustrated, text provides an in-depth evaluation of the behavior and ecology of this genus in the context of current sociobiologic theory.—Nancy M. Wells, U.S. Fish and Wildlife service, Office of information Transfer, 1025 Pennock Place, Fort Collins, CO 80524.

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Nebraska: Platte River Valley
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New Mexico: Santa Fe Natl. Forest
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New York
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New York: Oswego County
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North Carolina, Northeastern
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North Carolina: Brunswick County
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North Carolina: Great Smoky Mountains Natl. Park
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Zimbabwe
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BOOK REVIEW

Seal, Ulysses S., E. Tom Thorne, Michael A. Bogan and Stanley H. Anderson, editors. 1989. *Conservation Biology and the Black-Footed Ferret.* Yale University Press, 92A Yale Station, New Haven, CT 06520. xvii + 302 pp. Available from the publisher at $40.00 (cloth).

For more than 100 years a portrait of the black-footed ferret (*Mustela nigripes*) has served as a logo for the classic North American Fauna Series of U.S. Government biological monographs. Today the black-footed ferret is apparently no longer a member of the wild fauna of North America. The species survives only as well-guarded captive remnants. This book summarizes some diverse areas of knowledge, theory and technology needed to guide interim measures necessary for an eventual reversal of the ferret's tragic status in the wild. These interim measures center around establishment and propagation of viable ferret populations in captivity.

Following a preface and an introduction, the book consists of a series of 19 chapters written by 34 contributors. The chapters are based on a 1985 workshop, and are organized in four parts. Part One, Context and Systematics, is comprised of three chapters outlining the growing problem of mammalian extinctions, reviewing mustelid phylogeny and ferret systematics, and appraising the genetic variation and molecular systematics of *Mustela nigripes*. Part two, Population Biology, consists of four chapters on genetics and demographics of small populations, emphasizing detailed case studies of the black-footed ferret in the areas of genetics of captive propagation, extinction probabilities, and genetic variability. Part Three, Reproduction, covers six review chapters spanning a series of topics ranging from mustelid reproduction and reproductive physiology to the technologies of embryo transfer, electroejaculation and cryopreservation of sperm. Part Four is entitled Management and Conservation. Six contributions under this heading seek to explain the Federal recovery planning process, species survival plans for captive propagation, progress in *M. nigripes* captive breeding efforts, demographic and genetic planning recommendations for captive propagation, and a system for analysis of ferret capture and release decisions.

The material in this book is without a doubt an important milestone in the black-footed ferret saga, but its value extends beyond this restricted topic. It is one of the best collections of papers available to provide examples of the depths of the complexities involved in endangered species restoration, and one of the best to show how principles derived from the eclectic field of conservation biology can be practically applied towards the solutions of these complex problems. The authors were drawn from universities, government agencies, zoos, and laboratories from throughout the U.S. as well as Canada and England. The breadth of backgrounds required to develop the best blueprints for endangered species restoration through captive propagation and reintroduction spans a wide array of disciplines, institutions, and geographic regions. Such restoration is not a trivial task, and cooperative multi-disciplinary and multi-institutional approaches like this will have a higher probability of success than more limited parochial efforts. This book certainly provides an appropriate model to apply to similar situations in the future, and many more such problems will face us on the rising tides of extinction and endangerment. Because of this future need, this would be a useful supplemental text in upper division and graduate level courses in several biological and natural resource fields.

The quality of the editing is good, although there is redundancy across some chapters, and minor inconsistencies exist in the treatment of literature citations. Figures and tables are adequate. There are no photographs. The ink for the title on the hard cover of my copy was easily worn off. I was also disappointed at the lack of a background chapter devoted to the biology and conservation history of the black-footed ferret as a wild entity. However, such information is available elsewhere.

I look forward to a sequel. Hopefully it will detail how a well-designed captive propagation and reintroduction effort resulted in the visage of the ferret once again peering above ground on the high plains and mountain valleys of North America, as well as from the covers of the North American Fauna Series.—Thomas J. O'Shea, Gainesville Field Station, National Ecology Research Center, U.S. Fish and Wildlife Service, 412 N.E. 16th Ave., Gainesville, FL 32601.

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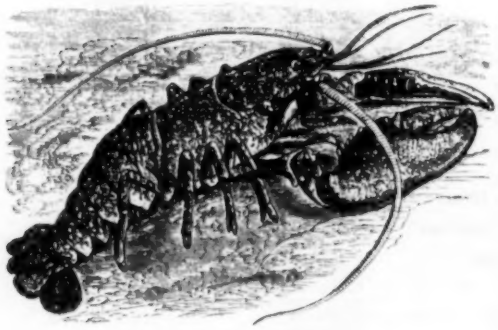
BOOK REVIEW

Brusca, R. C. and G. J. Brusca. 1990. *Invertebrates*. Sinauer Associates, Inc., Sunderland, MA 01375-0407. 922 pp., 1,400 illustrations. Available from the publisher $47.50 (cloth).

Invertebrates is a major new reference and text. The text emphasizes the body plan or "bauplan" and evolution and phylogeny within each phylum. Major features of the anatomy and morphology of each group are described and illustrated by more than adequate semi-diagrammatic line drawings by Nancy J. Haver. Digerstion and movement features are described, but other than for an introductory chapter on invertebrtae habitats no space in the chapters of various phyla is devoted to elements of behavior or ecology. In many aspects the book seems to be a condensed version of the subject matter treated in Libby Hyman's classic volumes on invertebrate structure and function. Taxa below the order level are not mentioned or described. A glossary would to the thousands of terms mentioned would be helpful, but all bold-faced textual terms are indexed and a brief definition usually accompanies each term in the text.

The book's intended audience students in upper division or graduate level invertebrate zoology courses, and for this audience the book should fill an important role. It is more up-to-date and treats most taxa in greater depth than Barnes' text for the same level. It is more advanced that Buchsbaum et als. *Animals without Backbones* that is more appropriate for the undergraduate level. It differs from Pennak's *Fresh-water Invertebrates of the United States* in that it covers marine taxa and emphasizes structure and function.

For the fishery or wildlife biologist who wishes to know the broad outlines of total invertebrate diversity and structure this will be an excellent source, but it will not be so useful for those biologists interested in the identity and ecology of invertebrates that comprise dietary items for vertebrates.—Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.



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